

# Mineral Industry Surveys

---

For information, contact:

Thomas S. Jones, Manganese Commodity Specialist  
U.S. Geological Survey  
989 National Center  
Reston, VA 20192  
Telephone: (703) 648-4973, Fax: (703) 648-7757  
E-mail: [tjones@usgs.gov](mailto:tjones@usgs.gov)

Jesse J. Inestroza (Data)  
Telephone: (703) 648-7968  
Fax: (703) 648-7975

MINES FaxBack: (703) 648-4999  
Internet: <http://minerals.usgs.gov/minerals>

## MANGANESE IN JANUARY 2000

In January, reported consumption of manganese ore containing 35% or more manganese, exclusive of that at iron and steel plants, was 34,900 metric tons, which was essentially unchanged as compared with that for the previous month, according to the U.S. Geological Survey. The figure for January increases to 39,100 tons when estimates for annual respondents are added on the basis of 1998 data. Corresponding industry stocks of ore at the end of the month were 185,000 tons, which includes an estimate for annual respondents on the basis of 1998 data. This was a decrease of about 4% compared with the corresponding figure for stocks at the end of December 1999.

Data for domestic consumption and stocks of manganese ferroalloys and metal for the April through June quarter of 1999 will appear in a subsequent monthly report.

Foreign trade data for January will appear in a subsequent report. For December 1999, the data tabulated in this report indicated that exports of silicomanganese were the least since October 1997. The data also indicated for all of 1999 that import volumes exceeded those for 1998 for manganese dioxide and low-

and medium-carbon ferromanganese. Receipts of manganese dioxide again easily set a new record. While the total volume of imports of ore was unusually large, the final figure is still uncertain because the large quantity reported for Morocco has not yet been verified. **Note:** For early availability, the trade data appearing in this report are being placed on MINES FaxBack in preliminary form. The data for December were placed on FaxBack as of February 28. The FaxBack document number for the January trade data will be 420201.

The Defense National Stockpile Center of the Defense Logistics Agency, U.S. Department of Defense, reported for January that cash disposals of manganese materials from the National Defense Stockpile consisted of 272 tons of chemical-grade ore and 47,530 tons of metallurgical-grade ore. The disposal of chemical-grade ore was all to Chemical Technologies, LLC, Elizabethton, TN. The disposal of metallurgical-grade ore was part of an existing contract and included an accounting adjustment.

TABLE 1  
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
1998: 3/						
December	3,050	37,900	40,900	102	1,580	1,680
January-December	180,000	513,000	692,000	4,100	21,100	25,200
1999: 3/						
January	20,500	48,300	68,800	95	1,850	1,940
February	17,900	40,700 4/	58,700	13	1,160	1,170
March	22,100 4/	40,100 4/	62,200	75	1,500	1,570
April	18,300 4/	39,800 4/	58,100	24	1,250	1,280
May	33,100 4/	23,900 4/	57,000	135	1,370	1,500
June	34,300	47,800	82,100	46	1,270	1,320
July	67,200 4/	29,700 4/	96,900	385	1,190	1,570
August	25,800 4/	43,700 4/	69,600	75	953	1,030
September	1,910	23,600 4/	25,500	96	720	816
October	25,400 4/	44,300 4/	69,700	78	878	956
November	27,000 4/	39,000 4/	66,000	972	1,620	2,590
December	7,600 4/	41,100 4/	48,700	92	1,390	1,490
Total	301,000	462,000	763,000	2,090	15,100	17,200

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

3/ Data may include revisions by the Bureau of the Census.

4/ All or part of these data have been referred to the Bureau of the Census for verification.

Source: Bureau of the Census.

TABLE 2  
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN DECEMBER 1999 1/

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	8,210	5,470	\$3,880,000	67,500	45,000	\$26,600,000
Brazil	20 2/	9 2/	17,400 2/	20	9	17,400
Canada	--	--	--	223	147	62,000
France	--	--	--	6,740	4,500	2,930,000
Georgia	--	--	--	13,400	9,900	5,470,000
India	--	--	--	10,900	7,020	4,340,000
Kazakhstan	--	--	--	27,700	17,000	10,900,000
Mexico	3,930	2,570	1,650,000	58,800	38,600	24,900,000
South Africa	13,400	9,040	5,820,000	89,300	60,000	35,800,000
Spain	--	--	--	951	597	615,000
Ukraine	--	--	--	8,190	6,030	2,850,000
Venezuela	2,700	1,780	1,160,000	16,900	11,100	6,530,000
Total	28,300	18,900	12,500,000	301,000	200,000	121,000,000
Total, general imports	28,300	18,900	12,500,000	300,000	200,000	121,000,000

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ All or part of these data have been referred to the Bureau of the Census for verification.

Source: Bureau of the Census.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN DECEMBER 1999 1/

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
<b>Low carbon:</b>						
China	35	30	\$36,400	1,280	1110	\$1,270,000
Italy	397	354	551,000	3,800	3,260	4,620,000
Japan	--	--	--	6,500	5,540	5,610,000
Mexico	400	318	363,000	2,220	1,770	2,010,000
Netherlands	--	--	--	43	45	31,700
Russia 2/	--	--	--	--	--	--
Slovenia	--	--	--	9	7	5,220
South Africa	970	814	795,000	3,740	3,290	3,970,000
Ukraine	--	--	--	60	57	64,800
Total, low carbon	1,800	1,520	1,740,000	17,600	15,100	17,600,000
Total, general imports of low carbon	1,800	1,520	1,740,000	17,600	15,100	17,600,000
<b>Medium carbon, 1%-2% C:</b>						
France	--	--	--	5,220	3,920	2,630,000
Japan	--	--	--	424	361	511,000
Korea, Republic of	2,250	1,800	1,210,000	10,800	8,760	6,210,000
Mexico	2,320	1,870	1,330,000	25,400	20,400	14,600,000
Norway	--	--	--	20	9	18,600
South Africa	6,250	5,060	3,340,000	25,100	20,400	14,100,000
Total, m.c., 1%-2% C	10,800	8,740	5,880,000	67,000	53,800	38,100,000
Total, general imports of m.c., 1%-2% C	10,800	8,740	5,880,000	67,000	53,800	38,100,000
<b>High carbon:</b>						
Australia	2,310	1,760	815,000	11,700	8,920	4,600,000
Brazil	--	--	--	6,580	5,000	2,430,000
China	--	--	--	6,000	4,420	2,260,000
France	--	--	--	93,500	72,300	43,800,000
Saudi Arabia	--	--	--	1,270	994	463,000
South Africa	11,700	9,170	4,080,000	111,000	86,500	41,200,000
Total, high carbon	14,000	10,900	4,890,000	230,000	178,000	94,800,000
Total, general imports of high carbon	14,000	10,900	4,890,000	230,000	178,000	94,800,000
Grand total	26,700	21,200	12,500,000	315,000	247,000	150,000,000
Grand total, general imports	26,700	21,200	12,500,000	315,000	247,000	150,000,000

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Revised to zero.

Source: Bureau of the Census.

TABLE 4  
U.S. IMPORTS 1/ OF MANGANESE ORE (20% OR MORE Mn) IN DECEMBER 1999 2/

(Metric tons)

Source	20% - 47% Mn		47% or more Mn		Total	
	Gross weight	Mn content	Gross weight	Mn content	Gross weight	Mn content
Gabon	--	--	9,570	4,780	9,570	4,780
Mexico	3,180	1,210	--	--	3,180	1,210
Total	3,180	1,210	9,570	4,780	12,700	5,990
Year to date: p/						
Australia	--	--	44,900	23,500	44,900	23,500
Belgium	156	61	7,260	6,680	7,420	6,740
Brazil	--	--	2	1	2	1
China	5	43	20	15	25	58
Gabon	37,900	12,400	254,000	125,000	292,000	138,000
Ghana	26,100	10,200	--	--	26,100	10,200
Mexico	22,500	8,600	1,090	523	23,600	9,130
Morocco	--	--	100,000	50,000	100,000	50,000
South Africa	27,300	9,970	58,000	29,200	85,300	39,100
Total	114,000	41,300	465,000	235,000	579,000	277,000

p/ Preliminary.

1/ Quantities for general imports and imports for consumption are identical.

2/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN DECEMBER 1999 1/

(Metric tons, gross weight)

Source	Manganese dioxide				Manganese metal			
	Quantity	Customs value	Year to date		Unwrought		Other	
			Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	1,010	\$1,520,000	21,400	\$30,200,000	--	--	--	--
Belgium	37	52,600	591	913,000	--	--	--	--
Canada	--	--	--	--	--	--	--	22
China	17	20,300	24	30,600	179	2,770	20	1,700
France	--	--	23	68,500	--	--	--	29
Germany	10	53,400	86	462,000	31	255	--	81
Greece	--	--	16	21,500	--	--	--	--
India	--	--	--	--	--	--	--	16
Ireland	828	1,150,000	8,360	11,700,000	--	--	--	--
Japan	--	--	31	45,200	--	--	4	21
Mexico	10 2/	16,600 2/	10	16,600	--	--	--	22
Netherlands	--	--	--	--	--	--	9	33
South Africa	776	1,100,000	10,400	14,700,000	565	8,910	--	--
Spain	--	--	--	--	--	40	--	--
Ukraine	--	--	--	--	124	429	59	119
United Kingdom	(3/)	7,660	45	189,000	59	497	--	(3/)
Total	2,680	3,920,000	40,900	58,400,000	957	12,900	92	2,040
Total, general imports	2,680	3,920,000	40,900	58,400,000	957	13,200	92	2,040

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ All or part of these data have been referred to the Bureau of the Census for verification.

3/ Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 6 tons, all of which was from Canada, to give a year-to-date total of 152 tons.

Source: Bureau of the Census.

TABLE 6  
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,  
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN DECEMBER 1999 1/

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal 2/	
	December	Year to date	December	Year to date	December	Year to date	December	Year to date
Australia	--	--	--	1	--	33	--	(3/)
Belgium	--	--	--	--	--	--	--	78
Brazil	--	--	--	--	--	11	--	125
Canada	171	1,250	610	4,080	104	3,360	55	1,490
Colombia	--	--	--	18	--	--	--	19
France	--	11	--	--	--	14	--	(3/)
Germany	14	14	--	--	--	--	--	1
Hong Kong	--	--	--	--	--	--	--	1
India	--	--	--	--	--	--	--	1
Italy	--	--	--	--	--	--	--	35
Japan	--	--	--	--	--	--	73	659
Korea, Republic of	--	63	--	--	--	--	--	12
Malaysia	--	102	--	--	--	--	--	--
Mexico	--	--	--	24	--	250	29	111
Netherlands	--	--	--	--	--	19	--	190
Peru	--	162	--	--	--	--	--	--
Singapore	--	2,440	--	--	--	--	--	--
Spain	--	--	--	--	--	10	--	(3/)
Sweden	--	--	--	--	--	--	--	98
Taiwan	--	--	--	--	--	--	(3/)	11
United Kingdom	--	136	--	9	--	8	38	711
Venezuela	--	--	709	709	--	--	--	--
Total	184	4,170	1,320	4,840	104	3,700	195	3,540

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes manganese-aluminum, some other alloys, and waste and scrap.

3/ Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 110 tons, all of which went to Canada, to give a year-to-date total of 6,760 tons.

Source: Bureau of the Census.

TABLE 7  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 1999, BY CLASS 1/

Class	Gross weight (metric tons)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands) 2/	Year to date		
				Gross weight (metric tons)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands) 2/
<b>Imports for consumption:</b>						
Manganese oxides other than dioxide	117	\$237	Belgium 72; \$170	1,750	\$2,070	Mexico 720; \$138
Sulfates, basket category, including manganese sulfate	3,590	1,630	China 2,050; \$604	39,900	21,200	Mexico 18,800; \$9,430
Potassium permanganate	145	288	Czech Republic 102; \$196	1,720	2,980	Czech Republic 750; \$1,410
Manganites, manganates, and other permanganates	--	--	--	2	13	Canada 2; \$8
<b>Exports:</b>						
Manganese dioxide	222	321	Canada 109; \$37	9,910	7,830	United Kingdom 5,110; \$1,630
Manganese oxides other than dioxide	324	188	Canada 189; \$71	5,890	6,050	Canada 3,280; \$1,280
Sulfates, basket category, including manganese sulfate	1,550	763	Canada 1,330; \$497	19,900	9,250	Canada 16,700; \$5,200
Potassium permanganate	95	184	Canada 31; \$53	1,230	2,320	United Kingdom 373; \$755
Manganites, manganates, and other permanganates	8	58	United Kingdom 8; \$58	232	1,140	United Kingdom 98; \$666

1/ Data are rounded to three significant digits.

2/ For imports, Customs value; for exports, f.a.s. value.

Source: Bureau of the Census.